TPW

PE CLASS

TO CHIEF							PTO/SB/21 (08-03) gh 08/30/2003. OMB 0651-0031
EWY & TRACEME	erwork Re	duction Act of 1995	no persons	U.S. Paten s are required to respond to a collection Application Number	nt and Trademark on of information 10/708,002	Office; U.S. D unless it disola	EPARTMENT OF COMMERCE avs a valid OMB control number.
TR	ANSI	MITTAL		Filing Date	2/2/2004	<del></del>	
FORM			First Named Inventor	Rong-Gui Lin			
(to be used for all correspondence after initial filing)				Art Unit .	, toing out a		
(to be used for all	ii coirespe	incence aner initial	illing)	Examiner Name			
		··	_				
Total Number of F	Pages in T	his Submission	3	Attorney Docket Number	MSCP0022USA	\	
			ENCL	LOSURES (Check all that	t apply)		
Amendmen Afte Afte Affe Extension Express Al Information Certified C Document Response Incomplete	e Attache int/Reply er Final idavits/de of Time I bandonm in Disclos copy of P (s) to Missir e Applica	eclaration(s) Request nent Request ure Statement riority		Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Addra Terminal Disclaimer Request for Refund CD, Number of CD(s)	ess	to Technolo Appeal Cor of Appeals Appeal Cor (Appeal Noti Proprietary Status Lette	osure(s) (please
unc	der 37 Cl	FR 1.52 or 1.53			•		
		SIGNA	TURE C	OF APPLICANT, ATTORN	EY, OR AG	ENT	
Firm or Individual name	Winsto	on Hsu, Reg. I					
Signature		h	1/4	iston Up	N		
Date			8/2	12000	,		
		С	ERTIFIC	CATE OF TRANSMISSION	/MAILING		
I hereby certify tha sufficient postage a the date shown be	as first cl	respondence is b	eing facsi	mile transmitted to the USPTO or dressed to: Commissioner for Pa	r deposited with	the United \$ 1450, Alexa	States Postal Service with andria, VA 22313-1450 on
Typed or printed na	ame						
Signature						Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FFF TDANG	RAITTAI	Complete if Known				
FEE TRANS	WILLIAL	Application Number	10/708,002			
for EV 2	0004	Filing Date	2/2/2004			
_ <del>_</del>	for FY 2004  Effective 10/01/2003. Patent fees are subject to annual revision.		Rong-Gui Lin			
Applicant claims small entity status. S		Examiner Name				
		Art Unit				
TOTAL AMOUNT OF PAYMENT	L(\$) 0.00	Attaura Danieri Na	MECDOOOLICA			

Audito bockerio.						
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None	3. AD	DITI	ONAL	. FEE	S	
Deposit Account:	<u>Large E</u>				,	
Deposit 50 2405		Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid_
Account Number 50-3105	1051	130	2051	65	Surcharge - late filing fee or oath	
Deposit Account North America Intellectual Property Corp.	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
Name The Director is authorized to: (check all that apply)	1053	130	1053	130	Non-English specification	
Charge fee(s) indicated below Credit any overpayments	1812 2	2,520	1812	2,520	For filing a request for ex parte reexamination	
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee	1805 1	1,840*	1805	1,840*	Requesting publication of SIR after	,
to the above-identified deposit account.	1251	110	2251	55	Examiner action  Extension for reply within first month	
FEE CALCULATION	1252	420	2252	210		
1. BASIC FILING FEE	1252	950	2253		Extension for reply within third month	
Large Entity Small Entity Fee Fee Fee Fee Fee Description Fee Paid	1254 1		2254	740	• •	·
Code (\$) Code (\$)	1255 2		2255		Extension for reply within fifth month	
1001 770 2001 385 Utility filing fee				.,	• •	
1002 340 2002 170 Design filing fee	1401 1402	330 330	2401 2402		Notice of Appeal	
1003 530 2003 265 Plant filing fee					Filing a brief in support of an appeal Request for oral hearing	
1004 770 2004 385 Reissue filing fee	1403	290	2403		· -	$\vdash$
1005 160 2005 80 Provisional filing fee	1451 1		1451		Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 0.00	1452 1453 1	110	2452 2453		Petition to revive - unavoidable  Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501 1		2501		Utility issue fee (or reissue)	
Fee from Extra Claims below Fee Paid	1502	480	2502		Design issue fee	
Total Claims20** = X =	1503	640	2503		Plant issue fee	
Independent - 3** = X = =	1460	130	1460		Petitions to the Commissioner	
Multiple Dependent =	1807	50	1807		Processing fee under 37 CFR 1.17(q)	
Large Entity   Small Entity	1806	180	1806		Submission of Information Disclosure Stmt	
Fee Fee Fee Fee Description Code (\$)	8021	40	8021		Recording each patent assignment per property (times number of properties)	
1202 18 2202 9 Claims in excess of 20	1809	770	2809	385	Filing a submission after final rejection	
1201 86 2201 43 Independent claims in excess of 3					(37 ČFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	385		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
Other fee (specify)						
SUBTOTAL (2) (\$) 0.00	*Reduc	ced by	Basic F	Filing F	ee Paid SUBTOTAL (3) (\$) 0.00	

SUBMITTED BY								(Complete (	if applicable))
Name (Print/Type)	Winston Hsu		1	-	77	Registration No. (Attorney/Agent)	41,526	Telephone	886289237350
Signature		1	/	w	lo	es bou	4	Date	8721200G

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

AUG D 4 2004 22 AUG STATE A TRADEMARK

PTO/SB/02B (11-00)
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

## **DECLARATION** — Supplemental Priority Data Sheet

Additional foreign app	olications:			
Prior Foreign Application Number(s)	,	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES NO
092203499	Taiwan R.O.C	03/07/2003		
		:		

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

त्तन प्रत जार जार जार जार

වල වල වල වල



වර් වර වර වර

# 中華民國經濟部智慧財產局

INTELLECTUAL PROPERTY OFFICE MINISTRY OF ECONOMIC AFFAIRS REPUBLIC OF CHINA

茲證明所附文件,係本局存檔中原申請案的副本,正確無訛,

其申請資料如下

This is to certify that annexed is a true copy from the records of this office of the application as originally filed which is identified hereunder:

西元 2003 年 03 Application Date

092203499 號 案 請

Application No.

微星科技股份有限公司

Applicant(s)

CERTIFIED COPY OF PRIORITY DOCUMENT

局 Director General



2003年 發文日期: 西元

Issue Date

09221202 發文字號:

Serial No.

回归

		3
申請案號:	10	J

(以上各欄由	由本局填記	新型專利說明書
·	中文	面板結構
新型名稱	英 文	
	姓名(中文)	1. 林榮貴 2. 謝健仁
· =	姓 名 (英文)	1.Rong-Gui LIN 2.Chien-Jen HSIEH
創作人 (共2人)	國籍(中英文)	1. 中華民國 TW 2. 中華民國 TW
	住居所(中 文)	1. 台北市通化街200巷50號1樓 2. 台北縣中和市員山路78號2樓
	住居所(英文)	1. 2.
	名稱或 姓 名 (中文)	1. 微星科技股份有限公司
	名稱或 姓 名 (英文)	1. MICRO-STAR INT L CO., LTD
=	國籍(中英文)	1. 中華民國 TW
申請人 (共1人)	住居所(營業所)	1. 台北縣中和市立德街六十九號 (本地址與前向貴局申請者相同)
	住居所(營業所)	
	代表人(中文)	1. 徐祥
	代表人(英文)	1.
	W. W. W. W. W.	[AMINANANANANA) WARKE



#### 四、中文創作摘要 (創作名稱:面板結構)

一種面板結構,其包括有一面板本體,複數個按鍵, 其中按鍵設計了一偏移於按鍵中央位置之觸壓部,使得面板本體所匹配之電路板上的指示燈直接對應於按鍵中央位置,而使按鍵與指示燈整合於同一位置處,以精簡面板本體的結構設計。

伍、(一)、本案代表圖為:第2圖

(二)、本案代表圖之元件代表符號簡單說明:

10 面板結構

111、112、113 扣片

114、115、116、117、118 開槽

12、13 按鍵

英文創作摘要 (創作名稱:)



## 四、中文創作摘要 (創作名稱:面板結構)

121按鈕部1211鏤空口122觸壓部123彈性框1231結合部1232、1233懸臂

英文創作摘要 (創作名稱:)



			v	
一、本案已向				
國家(地區)申請專利	申請日期	案號	主張專利法第一 第二十四條	一百零五條準用 第一項優先權
•				
	·	無		
		710		· 2.
二、□主張專利法第一百	<b>百零五條準用第二</b> -	十五條之一第一項	頁優先權:	
申請案號:		<i>1</i>		
日期:		無		·
三、主張本案係符合專利	川法第九十八條第	一項□第一款但書	書或□第二款但書規2	定之期間
日期:				
•				
	,			
\				
	•	•		



#### 五、創作說明(1)

## 【創作所屬之技術領域】

本創作係有關一種面板結構,配置於一電子裝置上,用以罩覆住電子裝置,而所指的電子裝置係指光碟機等裝置。

## 【先前技術】

光碟機用來讀取光碟上紀錄的資訊,目前已是電腦主機中之標準配備,如「第1圖」所示,圖中所示即為一應用於電腦主機上之光碟機,光碟機通常具有一托盤,托盤用來承載光碟,而於光碟機的前端通常具有一電路板,電路板上設有音源訊號插座、音量調整旋鈕、停止/退出開關、播放/快轉開關及動作指示燈,而在光碟機的前端通常運動,面板罩覆住光碟機的前端,而面板對應承板、音源訊號插座、音量調整旋鈕、停止/退出開關、播放/快轉開關及動作指示燈的位置處會設有開槽或者是按鍵,因此面板的外觀造型設計即能依照上述元件之位置來設計,並無法有太大的變化。

## 【新型內容】

習知所揭露之光碟機的面板結構,按鍵與指示燈的位置都是分開的設置,徒增製造成本;本創作係根據先前技術所存在的問題,提出一種按鍵與指示燈整合於同一位置之面板結構設計。

根據本創作所揭露之面板結構,其包括有一面板本體、一個以上的按鍵,按鍵係以可活動之關係設置於面板本體上,其中按鍵包含了一具透光性之按鈕部及設於按鈕





#### 五、創作說明 (2)

部一側之觸壓部,本創作將按鈕部的位置空出,按鈕部可以直接對應於一指示燈,使按鍵與指示燈整合於同一位置,精簡面板本體的結構。

#### 【實施方式】

根據本創作所揭露之面板結構,係應用於一電子裝置上,此一電子裝置譬如是電腦主機中之光碟機20(如第3A圖所示),其中光碟機20具有一承載光碟(圖中未示)之托盤21,於光碟機20前端具有一電路板22,電路板22上設有音源訊號插座23、音量調整旋鈕24、一個以上的按壓開關25、26(執行預設之停止/退出或是播放/快轉等動作)以及一個以上的指示燈27、28(根據光碟機動作與否產生明滅光線),而本創作之面板結構即是用來單覆於光碟機20的前端。

請參閱「第2、3A、3B圖」所示,根據本創作所揭露之面板結構10,其包括有一面板本體11、一個以上的按鍵12、13。

面板本體10結合於光碟機20的前方而遮蔽住電路板22,面板本體10側緣具有複數個扣片111、112、113,用以將面板本體10結合於光碟機20上,而面板本體10分別對應於托盤21、音源訊號插座23、音量調整旋鈕24及指示燈27、28的位置處開設有大小不一的開槽114、115、116、117、118,使得面板本體11結合於光碟機20上時,托盤21得以由開槽114移出,音源訊號插座23、音量調整旋鈕24恰可露出於開槽115、116,以讓使用者可以將耳機插頭





#### 五、創作說明(3)

(圖中未示)插入於音源訊號插座23,或是撥動音量調整 旋鈕24。

按鍵12、13(按鍵13與按鍵12相同,以下僅就按鍵12說明)介於電路板22與面板本體10之間,並對應設置於開槽117、118處,按鍵12包含有一按鈕部121及一觸壓部122,按鈕部121略呈中空圓柱型並具透光性,一端為封閉端,另一端為開口端,而按鈕部121略為突出於開槽117,以讓使用者可以按壓按鈕部121,觸壓部122則是自按鈕部121底緣的一側延伸,觸壓部並且對應於電路板22上之按壓開關25。

另外,於按鈕部121的一側延伸有一彈性框123,彈性框123具有一結合部1231及一對懸臂1232、1233,按鍵12藉由結合部1231結合於面板本體10,懸臂1232、1233則是一端連接於結合部1231,一端連接於按鈕部121,使按鍵12係藉由懸臂1232、1233的支撑,於常態下,按鍵12具有一維持於略突出開槽117之未按壓位置(如第4A圖所示),當使用者施力於按鈕部121的封閉端,可使按鈕部121帶動觸壓部122一併地移動一行程,使按鍵12之觸壓部122接觸按壓開關25而達到一按壓位置(如第4B圖所示),當使用者移除施力後,藉由懸臂1232、1233復歸至常態的未按壓位置。

按鍵12係由按鈕部121及觸壓部122所構成,且觸壓部122係比鄰於按鈕部121,使按鈕部121本身可完全中空並直接對應於指示燈27的位置,而將按鈕部121以可透光之



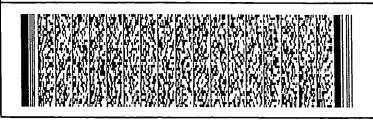


#### 五、創作說明 (4)

材質製作,讓對應於按鈕部121之指示燈27所產生之光線在無其他阻礙下,由按鈕部121射出,可供使用者觀察指示燈發光與否,如此,將按鍵12與指示燈27整合在同一位置上,使面板本體11上無須另行針對指示燈27有相對應之設計,將可精簡面板本體11之結構設計,亦可針對面板本體11的外觀進行外觀設計。

如「第5圖」所示,其中本創作中按鍵12之按鈕部121 其封閉端亦可直接開設複數個鏤空口1211,按鍵12則可無 須亦具透光性之材質製造,即可使得指示燈27的光線由鏤 空口1211射出,供使用者察覺指示燈27明亮與否。

以上所述者,僅為本創作其中的較佳實施例而已,並非用來限定本創作的實施範圍;即凡依本創作申請專利範圍所作的均等變化與修飾,皆為本創作專利範圍所涵蓋。



#### 圖式簡單說明

- 第1圖,係為習知之光碟機示意圖;
- 第2圖,係為本創作之構造示意圖;
- 第3A、3B圖,係為本創作之實施態樣示意圖,繪示本創作 與光碟機之結合關係;
- 第4A、4B圖,係為本創作之實施態樣剖面示意圖,繪示本 創作與光碟機之動作關係;
- 第5圖,係為本創作中按鍵之另一實施例圖。

## 【圖式符號說明】

10

111 \ 112 \ \ 113

114 \ 115 \ \ 116 \ \ 117 \ \ 118

12 \ 13

121

1211

122

123

1231

1232 \ 1233

20

21

22

23

24

25 \ 26

面板結構

扣片

開槽

按 鍵

按鈕部

鏤空口

觸壓部

彈性框

結合部

懸臂

光碟機

托 盤

雷路板

音源訊號插座

音量調整旋鈕

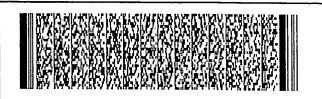
按壓開關



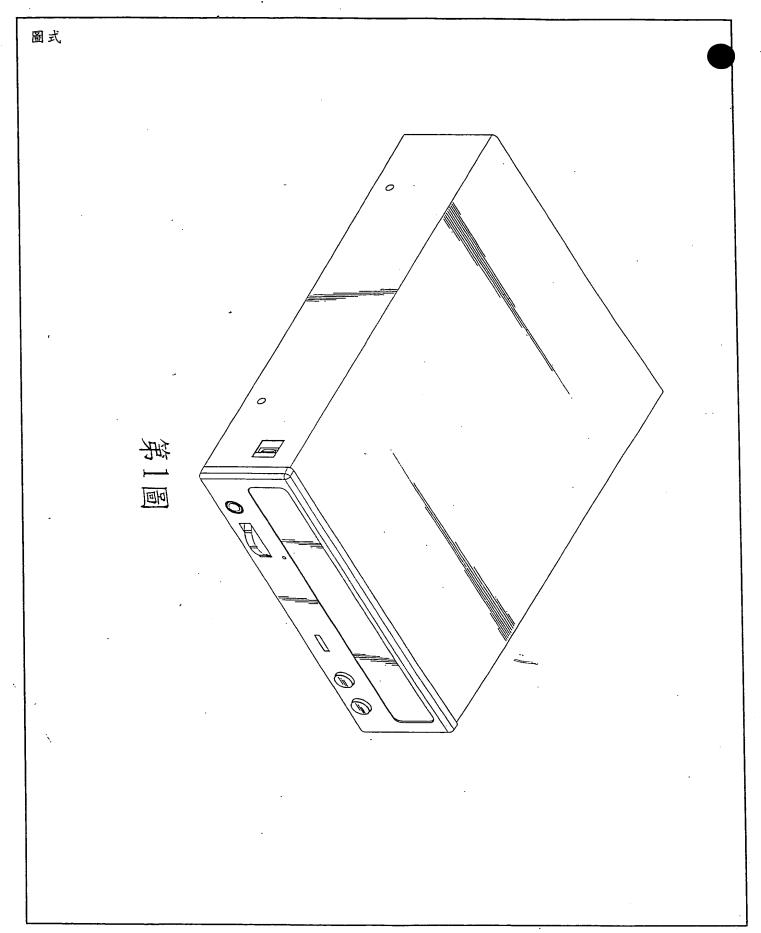


#### 六、申請專利範圍

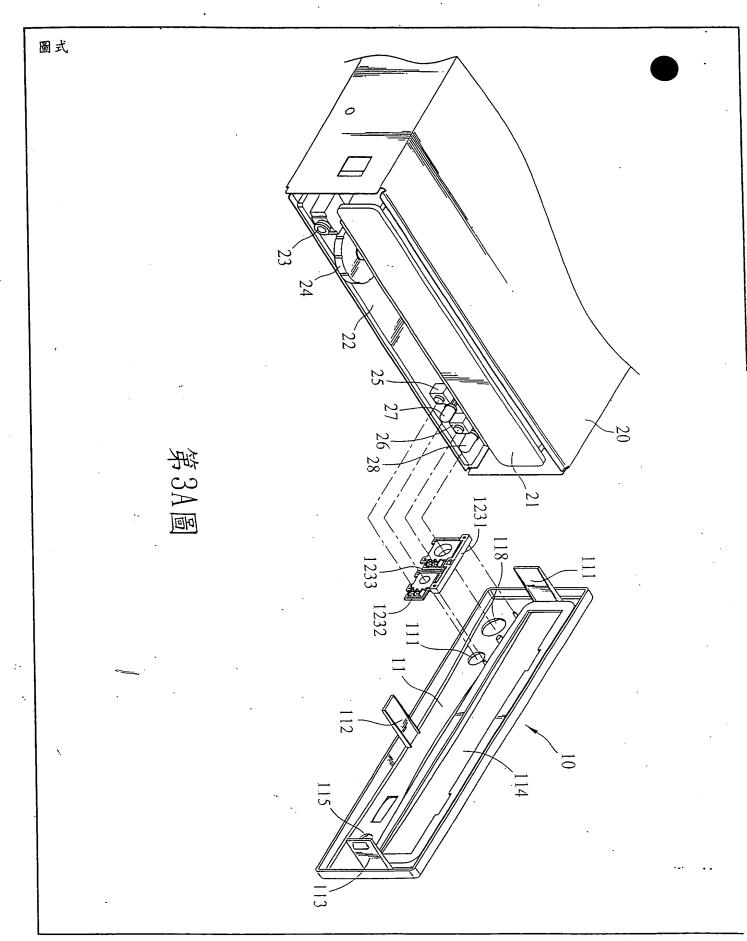
- 1. 一種面板結構,設置於一電子裝置上,該電子裝置具有一電路板,該電路板具有一個以上用以顯示該電子裝置動作與否之指示燈以及一個以上用以執行該電子裝置預設命令之按壓開關,該面板結構包括有:
  - 一面板本體, 匹配結合於該電子裝置而遮蔽住該電路板,該面板本體上具有一個以上的開槽,該開槽之一對應於該指示燈;
- 2. 如申請專利範圍第1項所述之面板結構,其中該面板本體具有側緣具有複數個用以結合至該光碟機之扣片。
- 3. 如申請專利範圍第1項所述之面板結構,其中該按鈕部可開設有複數個可讓該指示燈光線直接射出之鏤空口。
- 4. 如申請專利範圍第1項所述之面板結構,其中該彈性框 包含有結合於該面板本體之結合部以及懸置於該面板本 體及該按鈕部之懸臂。





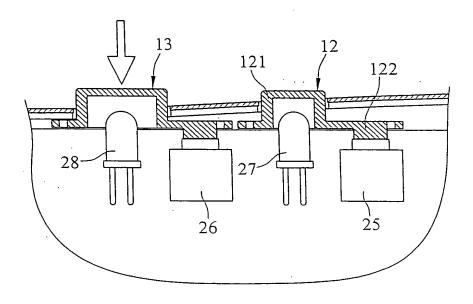


第(7)頁

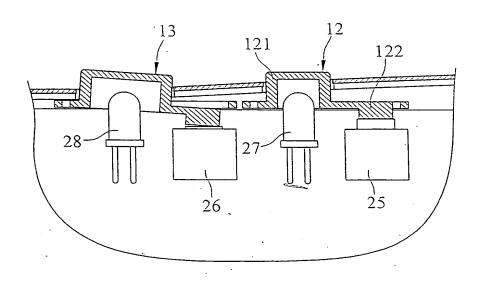


第一心頁

. • 



第4A圖



第4B圖

